PATENT COUPERATION THEA.

From the INTERNATIONAL SEARCHING AUTHORITY	PCT		
125 High Street	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL VETAR HING AUTHORITY, OR THE DECLARATION		
Boston, Massachusetts 02110 UNITED STATES OF AMERICA SEP 2			
GOODWIN PR			
Applicant's or agent's file reference	(day/month/year) 16/09/2005		
RIB-027PC	FOR FURTHER ACTION See paragraphs 1 and 4 below		
International epplication No. PCT/US2004/017097	International filing date (day/month/year) 02/06/2004		
Applicant			
RIB-X PHARMACBUTICALS, INC.	*		
1.			
Name end meiling eddress of the International Searching Authority European Patent Office, P.B. 5818 Patentiean 2 Name Patenties Pate	Authorized officer Federico Bonomelli		

in these Notes, "Article", "Rule", and "Section" reter to the provisions of the PCT, the PCT Regulations and the PCT Administrative instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the informational search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all ports of the international application (claims, description and clawings) may be amended during the international preliminary examination procedure, there is usually no need to fit amendments of the claims under Article 19 except where, e.g. the applicant weath the latter to be publicated for the purposes of provisional protection or has another reason for memoring the claims before infernational publication. Furthermore, it should be emphasized that provisional protection is evaluable in event States only.

What parts of the International application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Priminary Examining Authority. The description end drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmitted of the international search report or 16 months from the priority date, whichever time limit express inter. It should be noted, however, that the ammentments will be considered as having been received on time if they are received by the international Bureau after the exprision of the ammentment of the developed preparations for better the completion of the developed preparations for betterminished publications (Public 46.1).

Where not to file the emendments?

The amendmente may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed

A replecement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendmente, differs from the sheet originally filed.

All the claims appearing on e replacement sheet must be numbered in Arabio numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative) instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with e letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled:
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- · (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding reset claims;
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added," or "Claims 7 to 13 cancelsed, new claims 15, 16 and 17 added, at One claims unchanged."
- [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 16 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14, claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filled and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a damand for international preliminary examination has already been filed

II, at the time of Sting any amendments under Article 19, a demand for international proliminary susmination has already been submitted, the applicant must preferable, at the same time of Sting the amendments with the International Bureau, also tile a copy of such amendments with the International Preliminary Examining Authority (see Paule 62.2(e), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's

PATENT COUPERATION TREAT.

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

FOR FURTHER

RIB-027PC	ACTION as	well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year	(Earliest) Priority Date (day/month/year)
PCT/US2004/017097	02/06/2004	03/06/2003
Applicant		
RIB-X PHARMACEUTICALS	INC.	
This international Search Report is	as been prepared by this international Searching eing transmitted to the international Bureau.	Authority and is transmitted to the applicant
This international Search Report of	-	
	nled by a copy of each prior art document cited in	n this report.
Basis of the report With regard to the fanguage language in which it was fill	je, the international search was carried out on the	e basis of the international application in the
	ational search was carried out on the basis of a tity (Rule 23.1(b)).	ranslation of the international application furnished to
b. With regard to any	nucleotide and/or amino acid sequence disci	osed in the international application, see Box No. I.
2. Certain claims we	ere found unsearchable (See Box ii).	
3. Unity of invention	is lacking (see Box iii).	
4. With regard to the title,		
<u></u>	d as submitted by the applicant.	•
the text has been e	established by this Authority to read as follows:	
		•
5. With regard to the abstract,		
<u></u>	d as submitted by the applicant.	athority as it appears in Box No. IV. The applicant
may, within one m	onth from the date of malling of this International	search report, submit comments to this Authority.
6. With regard to the drawings,		
	to be published with the abstract is Figure No	
	ted by the applicant.	a cupacet a figura
	d by this Authority, because the applicant falled t d by this Authority, because this figure better cha	
	is to be published with the abstract.	

Applicant's or agent's file reference

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07D263/20 A61K31/421

According to Internetional Petent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) $IPC\ 7\ C07D$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic date base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with Indication, where appropriate, of the relevent passages	Relevent to claim No.
X	EP 0 694 543 A (BAYER AG) 31 January 1996 (1996-01-31)	1-4, 8-11,13, 26-28, 30,32, 33,35-37, 44-46
	page 91 - page 94; claim 1 page 26, line 58 - page 27, line 11	
x	WO 01/81350 A (ASTRAZENECA AB; ASTRAZENECA UK LIMITED; GRAVESTOCK, MICHAEL, BARRY; BE) 1 November 2001 (2001-11-01)	1-9,12, 14,16, 18,20, 22,24, 26-37, 44,46
	page 127 — page 134; claim 1 page 139; claims 12,13	
	-/	

Further documents are listed in the continuation of box C.
 Special categories of cited documents:

Patent family members are listed in nanex.

**P later document published after the International fling date or reform date and not in conflict with the application but

'A' document defining the general state of the left which is not considered to be of particular relevance
'E' earlier document but published on or after the international filing date

T later document published after the Internetional filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"E" earlier document but published on or after the international fling date.
"L" document which may throw doubts on priority claim(s) or which is cited to esteblish the publication date of enother citetion or other special reason (es specified). "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone.
"X" document of particular relevance; the claimed invention.

'O' document referring to en oral disclosure, use, exhibition or other meens

»voore an enverince step when the document is Laxon alone "v document of particular relevance; the claimed invantion cannot be considered to involve an inventive stap when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

P document published prior to the internetional filing date but later than the priority date claimed

8 document member of the same patent family

Date of mailting of the intermetional search report

Date of the ectual completion of the international search

9 September 2005

16/09/2005

Name end mailing eddress of the ISA

dress of the ISA Authorized officer

Europeen Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Piljswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Fink, D

		PCT/US200	14/01/09/
Category *	tion) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages		
Janegory -	Citation of cocument, with indication, where appropriate, or the resevant passages		Relevant to claim No.
K	WO 00/10566 A (BRISTOL-MYERS SQUIBB COMPANY) 2 March 2000 (2000-03-02) page 136 - page 155; claim 1 page 171; claim 7	·	1
4	EP 0 352 781 A (E.I. DU PONT DE NEMOURS AND COMPANY) 31 January 1990 (1990-01-31) the whole document		1-48
	BRICKNER S J: "OXAZOLIDINONE ANTIBACTERIAL AGENTS" CURRENT PHARMACEUTICAL DESIGN, BENTHAM SCIENCE PUBLISHERS, SCHIPHOL, NL, vol. 2, 1996, pages 175-194, XP001007528 ISSN: 1381-6128 the whole document		1-48
Ī	WO 2005/012271 A (RIB-X PHARMACEUTICALS, INC; WU, YUSHENB; CHEN, SHILI; CHEN, YI; HANSEL) 10 February 2005 (2005-02-10) page 83 - page 83; calm n page 25; compounds 17, 18 page 27; compounds 28,29 page 4, line 12 - line 28		1-46

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Although claims 37-45 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Continuation of Box II.2

The present compound claims 1-3, 13-25 and 35 relate to "prodrugs" of the present compounds. The use of this term leads to a lack of clarity (Article 6 PCT) because this term does not comprise any information as regards the structure of the compounds concerned. Accordingly, it is impossible to compare the said "prodrug" compounds with the compounds of the prior art. Consequently, the said "prodrug" compounds have not been searched.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-UI, 8.5), should the problems which led to the Article 17(2) declaration be

INTERNATIONAL SEARCH REPORT

PCT/US2004/017097

Box II Obs	ervations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)
This Internatio	nal Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
	is Nos.: use they relate to subject matter not required to be searched by this Authority, namely:
hum	hough claims 37-45 are directed to a method of treatment of the an/animal body, the search has been carried out and based on the alleged ects of the compound/composition.
becar	is Nos.: use they relate to parts of the international Application that do not comply with the prescribed requirements to such tent that no meaningful international Search can be carried out, specifically:
see	FURTHER INFORMATION sheet PCT/ISA/210
	is Nos.: use they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Obs	ervations where unity of invention is tacking (Continuation of item 3 of first sheet)
	nal Searching Authority round multiple Inventions in this international application, as follows:
1. As all search	required additional search fees were timely paid by the applicant, this International Search Report covers all hable claims.
2. As all of an	searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment additional fee.
3. As on cover	ly some of the required additional search fees were timely paid by the applicant, this international Search Report s only those claims for which fees were paid, specifically claims Nos.:
4. No re restric	quired additional search fees were timely seld by the applicant. Consequently, this international Search Report is feet to the invention first elemented in the dalms; it is covered by claims Nova:
Remark on Pr	otest The additional search fees were accompanied by the applicant's protest.

Pi	atent document d in search report		Publication date		Patent family member(s)		Publication date
EP	0694543	Α	31-01-1996	DE AU	4425612 A		04-04-1996 17-12-1998
				ΑU	2498595 A	A	01-02-1996
				BG	99790 /		30-04-1996
				CA	2154025		21-01-1996
				CN	1119647		03-04-1996
				CZ	9501872		14-02-1996
				DZ EE	1912 /		17-02-2002
				EP	9500045 A 0694543 A		15-02-1996 31-01-1996
				FΙ	953477		21-01-1996
				HR	950408		30-04-1997
				HÜ	75035 A		28-03-1997
				IL	114626		17-08-1999
				JP	8041056 A	Ą	13-02-1996
				MA	23620 A	A1	01-04-1996
				NO	952865		22-01-1996
				NZ	272597		29-01-1997
				PL	309686		22-01-1996
				RO SG	115262 E 33427 A		30-12-1999
				SK	91795 A		18-10-1996 07-02-1996
				US	5627181		06-05-1997
				ÜS	5843967 A		01-12-1998
				ZA	9506018 A		13-03-1996
WO	0181350	Α	01-11-2001	AT	268778 1		15-06-2004
				AU	781784 E		16-06-2005
				AU	4863601 A		07-11-2001
				BR CA	0110240 A		07-01-2003
				CN	2405349 A 1437603 A		01-11-2001 20-08-2003
				CZ	20023527		15-01-2003
				DE	60103754		15-07-2004
				DE	60103754 1		16-06-2005
				DK	1286998 1		06-09-2004
				EE	200200598 A	4	15-04-2004
				EP	1286998 A		05-03-2003
				ES	2220759 T		16-12-2004
				WO	0181350 A		01-11-2001
				HK	1053114 A		18-02-2005
				HU JP	0300416 A 2003531211 T		28-06-2003
				MX	PA02010453 A		21-10-2003 25-04-2003
				NO	20025091 A		09-12-2002
				NZ	521765 A		28-05-2004
				ΡĹ	358326 A		09-08-2004
				PT	1286998 T		30-09-2004
				SI	1286998 T		31-10-2004
				TR	200402261 T		21-12-2004
				US	2003216373 A		20-11-2003
				ZA_	200208187 A		11-02-2004
WO	0010566	Α	02-03-2000	AU	748750 B		13-06-2002
				AU	5783399 A		14-03-2000
				BR	9913225 A		22-05-2001
				BR CA CN	9913225 A 2341271 A 1314813 A	1	22-05-2001 02-03-2000 26-09-2001

DCT	/IIS	200	A / C	117	100

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
	ㅡ,				
WO 0010566	A		CZ	20010669 A3	15-08-2001
			EP	1107756 A1	20-06-2001
			HU	0103433 A2	28-01-2002
			ID	27690 A	19-04-2001
			JP	2002523369 T	30-07-2002
			NO	20010916 A	10-04-2001
			NZ	509867 A	29-08-2003
			PL	346267 A1	28-01-2002
•			TR	200100672 T2	23-07-2001
			TW	572757 B	21-01-2004
			WO	0010566 A1	02-03-2000
			US	2002094984 A1	18-07-2002
			ZA	200101505 A	22-02-2002
EP 0352781	Α	31-01-1990	us Us	4948801 A	14-08-1990
Er U352/81	н	31-01-1990	AU	622465 B2	09-04-1992
			AU .		
				3911589 A	01-02-1990
			CA	1337526 C	07-11-1995
			DK	374389 A	30-01-1990
			EP	0352781 A2	31-01-1990
			FΙ	893618 A	30-01-1990
			HU	58062 A2	28-01-1992
			IE	892438 L	29-01-1990
			JP	2124877 A	14-05-1990
			JP	2899319 B2	02-06-1999
			NO	893076 A	30-01-1990
			NZ	230108 A	25-10-1991
			PT	91315 A	08-02-1990
			US	5130316 A	14-07-1992
			US	5043443 A	27-08-1991
			US	5254577 A	19-10-1993
			ZA	8905778 A	27-03-1991
WO 2005012271	Α	10-02-2005	US	2005043317 A1	24-02-2005
		-0 0L L000	WO	2005019211 A2	03-03-2005
			WO	2005012270 A2	10-02-2005
			WO	2005012270 A2	10-02-2005
			ÜS	2005153971 A1	14-07-2005
			WO	2005061468 A1	07-07-2005

	4*				PCT	
see form PCT/ISA/220				INTERNATION	TEN OPINION OF THE NAL SEARCHING AUTHORITY PCT Rule 43 <i>bis</i> .1)	
				Date of mailing (day/month/year) see	e form PCT/ISA/210 (second sheet)	
	licant's or agent's file form PCT/ISA/2:			FOR FURTHER ACTION See paragraph 2 below		
PC	mational application i T/US2004/01709	7	International filing date (lay/month/year)	Priority date (day/month/year) 03.06.2003	
C0	rnational Patent Clas 7D263/20, A61K3 licant	sification (IPC) or I	both national classification			
	B-X PHARMACE	UTICALS, INC.	•		•	
1.	This opinion co Box No. i Box No. ii Box No. iii Box No. iii Box No. IV Box No. V	Basis of the op Priority Non-establishn Lack of unity of Reasoned state	nent of opinion with rega Invention ement under Rule 43 <i>bi</i> s	ard to novelty, inventiv	e step and industrial applicability novelty, inventive step or industrial	
1.	Box No. II Box No. III Box No. IV Box No. V Box No. V	Basis of the op Priority Non-establishin Lack of unity of Reasoned state applicability; cit Certain docum	inion nent of opinion with regal f Invention ment under Rule 43 <i>bis</i> tations and explanations ents cited	ard to novelty, inventiv 1(a)(i) with regard to supporting such state	novelty, inventive step or industrial	
1.	Box No. II Box No. III Box No. IV Box No. VI Box No. VI Box No. VI	Basis of the op Priority Non-establishin Lack of unity of Reasoned state applicability; cit Certain docum Certain defects	inion nent of opinion with regal finvention ement under Rule 43 <i>bis</i> tations and explanations	ard to novelty, inventive in (a)(i) with regard to supporting such state lication	novelty, inventive step or industrial	
1.	Box No. II Box No. III Box No. IV Box No. VI Box No. VI Box No. VI	Basis of the op Priority Non-establishn Lack of unity of Reasoned state applicability; cit Certain docum Certain defects Certain observa	inion nent of opinion with reg; finvention ement under Rule 43bis tations and explanations ents cited in the international app	ard to novelty, inventive in (a)(i) with regard to supporting such state lication	novelty, inventive step or industrial	
	Box No. I Box No. II Box No. II Box No. IV Box No. VI Box No. VI Box No. VII Box No. VIII Box No. VIII FURTHER ACTI If a demand for I written opinion o the applicant che	Basis of the op Priority Non-establishn Lack of unity of Reasoned statu applicability; ci Certain defects Certain observi ION International prelifiths in the the International ocean an Authorities and Authorities are under Rule	inion nent of opinion with regis I invention ment under Rule 43bis ations and explanations ants cited in the international app ations on the internation ininary examination is to all Praliminary Examinini to other than this one to	and to novelty, inventive and to novelty, inventive actions and application and application will Authority ("IPEA"). He the IPEA and the te	novelty, inventive step or industrial	
	Box No. I Box No. II Box No. II Box No. IV Box No. VI Box No. VI Box No. VIII Box No. VIII FURTHER ACTI If a demand for I written opinion o the applicant che international Bur will not be so could fit his opinion its policion of the IP	Basis of the op Priority Non-establish Lack of unity of Reasoned state applicability, of Certain docum Certain defects Certain observ. ION International prei of the International Design and Authority International prei of the International prei of the	inion nent of opinion with regi invention mutual 43bit attoria and 43bit attoria a	and to novelty, inventive .1(a)(i) with regard to supporting such state ilication all application made, this opinion will Authority ("IPEA"). He be the IPEA and be the IPEA and with written opinions of the II original written opinion of the II originals, with amendate.	novelty, inventive step or industrial ament. Lessally be considered to be a coverey, this does not apply where chosen IPEA has notified the	
	Box No. I Box No. II Box No. II Box No. IV Box No. IV Box No. V Box No. VI Box No. VII Box No. VIII Box No. VIII FURTHER ACTI If a demand for I of the applicant che international Bur will not be so co	Basis of the op Priority Non-establish no Lack of unity of Reasoned state applicability; of Certain dobserv Certain defects Certain observ Month of the certain observ Month of the certain observ Month of the certain observ Month of the certain observation of the International preliability of the International p	inion ment of opinion with regin Invention ment under Rule 42bb altions and explanations ents cited in the international app ations on the international app ations on the internation iminary examination is a Preliminary Examinin by other than this one to 65. flus(5) that written on we, considered to be a togethar, where approx of Form PCTISAR220 or	and to novelty, inventive .1(a)(i) with regard to supporting such state ilication all application made, this opinion will Authority ("IPEA"). He be the IPEA and be the IPEA and with written opinions of the II original written opinion of the II originals, with amendate.	novelty, inventive step or industrial ament usually be considered to be a covever, this does not apply where chosen IPEA has notified the tional Searching Authority PEA, the applicant is invited to has before the expiration of three	

Authorized Officer

Telephone No. +49 89 2399-8701

Fink, D



Name and mailing address of the ISA:

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/017097

_	Box N	o. I Basis of the opinion
1.	With r	egard to the language, this opinion has been established on the basis of the international application in guage in which it was filed, unless otherwise indicated under this item.
	la	nis opinion has been established on the basis of a translation from the original language into the following iguage , which is the language of a translation furnished for the purposes of international search inder Rules 1.23 and 23.1(b)).
2.	With r	egard to any nucleotide and/or amino acid sequence disclosed in the international application and sary to the claimed invention, this opinion has been established on the basis of:
	a. type	of material:
		a sequence listing
		table(s) related to the sequence listing
	b. form	nat of material:
		in written format
		in computer readable form
	c. time	of filing/furnishing:
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.	h:	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto is been filled or furnished, the required statements that the information in the subsequent or additional piece is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.
4.	Additio	nal comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/017097

	x No. III Non-establishment plicability	of opinion with regard to novelty, inventive step and industrial				
		invention appears to be novel, to involve an inventive step (to be non table have not been examined in respect of:				
	the entire international application,					
⋈	claims Nos. 1-3 (all partly), 13-25 (all partly), 35 (partly), 37-45 (as regards industrial applicability)					
bed	cause:					
Ø	the said international application to the following subject matter	on, or the said claims Nos. 37-45 (as regards industrial applicability) relate which does not require an international preliminary examination (specify):				
	see separate sheet	•				
		ings (indicate particular elements below) or said claims Nos. are so nion could be formed (specify):				
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.					
⊠	no international search report partly), 13-25 (all partly), 35 (p	has been established for the whole application or for said claims Nos. 1-3 (all artly)				
	the nucleotide and/or amino ac C of the Administrative Instruc	id sequence listing does not comply with the standard provided for in Annex tions in that:				
	the written form	□ has not been furnished				
		☐ does not comply with the standard				
	the computer readable form	□ has not been furnished				
		□ does not comply with the standard				
		tide and/or amino acid sequence listing, if in computer readable form only, do equirements provided for in Annex C-bis of the Administrative Instructions.				
	See separate sheet for further	details				

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/017097

Box No. V Reasoned statement under Rule 43*bis*.1(a)(f) with regard to novelty, Inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N) Yes: Claims 1-3 (all partly), 4-12, 13-25 (all partly), 26-34, 35 (partly), 36-48

No: Claims

Inventive step (IS) Yes: Claims

No: Claims 1-48

> Yes: Claims 1-36, 46-48 No: Claims

2. Citations and explanations

Industrial applicability (IA)

see separate sheet

Re Item III.

 The present claims 37-45 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(v) PCT.
 Consequently, no opinion will be formulated with respect to industrial applicability of the subject-matter of these claims.

[For the assessment of the aforesaid claims on the question whether they are industrially applicable, no unified criteria exist in the PCT. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but will allow, however, claims to a (known) compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.]

The expression "prodrug" as used in the present claims 1-3, 13-25 and 35 is unclear in the sense of Article 6 PCT.

This expression is a functional definition which does not comprise any information as regards the structure of the respective compounds.

It was therefore impossible to compare the said "prodrug" compounds with what is set out in the prior art.

Consequently, the International Search Report (ISR) was incomplete with respect to the said "prodrugs".

Insofar as the following letter refers to **claims 1-3, 13-25** and **35** it should only be taken to refer to the searched scope of the said claims (i.e., the *compounds* of the present general formula and the pharmaceutically acceptable *salts* and *esters* thereof).

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/US2004/017097

Re Item V.

Reference is made to the following documents:

- D1: EP-A-0694543 (31 January 1996);
- D2: WO-A-01/81350 (01 November 2001);
- D3: WO-A-00/10566 (02 March 2000);
- D4: EP-A-0352781 (31 January 1990);
- D5: Current Pharmaceutical Design 2(2), 175-194 (1996);
- D6: WO-A-2005/012271 (10 February 2005);

The current assessment is based on the assumption that all claims enjoy priority rights from the filing date of the priority document.

If it later turns out that this is not correct, the document **D6** as cited in the ISR could become relevant.

1. NOVELTY (Article 33(2) PCT):

The subject-matter of the present claims 1-48 appears to be novel (Article 33(2) PCT):

There are overlaps between

- (i) the present compound claims 1-4, 8-11, 13, 26-28, 30, 32, 33 and 35 and the compound claim 1 of D1 (cf., the compounds of D1 wherein D represents a 6-membered aromatic heterocycle comprising at least one nitrogen atom which is substituted with phenyl or an 6-membered unsaturated heterocycle with up to two nitrogen atoms which, in turn, is substituted with C₁₄ alkyl which, in turn, is substituted with a group NR²⁰P2²³ where R²³ represents a CHL-SO₂- group).
- (ii) the present compound claims 1-9, 12, 14, 16, 18, 20, 22, 24 and 26-35 and the compound claim 1 of D2 (cf., the compounds of D2 wherein Q is selected from Q1 or Q2 wherein T represents AR1 (cf., the "...optionally substituted phenyl...") or AR2 (cf., the "...optionally substituted 5- or 6-membered, fully saturated.....monocyclic heteroaryl ring..."), and
- (iii) the present compound claim 1 and the compound claim 1 of D3 (cf., the compounds of D3 wherein A is selected from a) wherein Q is selected from ff) or hh) which groups may be substituted with -CH₂-R₈₀ wherein R₈₀ represents -NR₃₂R₃₃ where R₃₂ represents a CH₃-SQ₂-group).

However, as the documents D1 - D3 do not specifically disclose biphenyl etc. derivatives which are substituted with alkylsulfonylaminoalkyl or alkylaminosulfonyl-alkyl groups (cf., the definition of the present substituent group M-X-L), the corresponding present compounds may be regarded to represent a novel selection from the compounds of D1 - D3.

The documents **D4** (cf., pages 51-54, claim 1) and **D5** (cf., page 189, last paragraph - page 188, table V) do not teach biphenyl derivatives substituted with alkylsulfonyl-amlnoalkyl or alkylaminosulfonylalkyl groups (cf., the definition of the present substituent group M-X-L).

The compounds of the present claim 1 are thus also novel over D4 and D5.

2. INVENTIVE STEP (Article 33(3) PCT):

The present application does not satisfy the criterion set forth in Article 33(3) PCT because the subject-matter of claims 1-48 does not appear to involve an inventive step (Rule 65(11/2) PCT):

The prior art D1 - D3 discloses oxazolidinone (D1 and D2) and isoxazolidinone compounds (D3) which are said to possess antibacterial activity.

There are overlaps between the present claim 1 and the first claims of D1- D3 (see, item 1 above).

The present compounds falling within this range of overlap represent a (novel) selection from the compounds of the first claims of D1 -D3

Such a selection, however, is only considered to involve an inventive step, if the compounds selected possess some unexpected advantages with respect to the range of compounds they are selected from (cf., the PCT INTERNATIONAL SEARCH AND PRELIMINARY EXAMINATION GUIDELINES; 25/03/2004, Chapter 13, items 13.14(e)(iv) and 13.14(f)(iii)).

Since at present no such properties are evident, it is considered that the compounds of the present claims 1-14, 16, 18, 20, 22, 24 and 26-35 do not satisfy the criteria of Article 33(3)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No. PCT/US2004/017097

PCT.

In view of the close structural relationship between the compounds of the prior art D1- D5 and having regard to the fact that the prior art compounds are also useful as antibacterial agents, it is considered that the compounds of the present claim 1 - which do not fall within the said range of overlap - have to be regarded to be obvious alternatives to the compounds of the prior art D1 - D5.

- 3-(Biphenyl or Pyridinylphenyl)-5-(triazol-1-ylmethyl)-2-oxo-oxazolidine derivatives (cf., the present claims 1-9, 12, 14, 16, 18, 20, 22 and 24) are known from D2;
 - 5-(acetylaminomethyl)-3-(biphenyl or pyridinylphenyl)-2-oxo-oxazolidine derivatives (cf., the present claims 1-11 and 13-25) are known from D4 (cf., claim 1) and D5 (see, e.g. the tables VIII and IX);
 - it is known from D2 (cf., the definitions of R² and R³ according to claim 1 of D2) and D5 (cf., page 187, Figure 2) and that the 3-phenyl group may have one or two fluorine substituents at its 3 and/or 5-position (cf., the present claims 1, 6, 7 and 14-25);
 - 4. it is further known from D2 (cf., the "optionally substituted" AR1 and AR2 rings according to claim 1 of D2) and D5 (cf., page 187, Figure 2; and page 189, column 2, last paragraph page 190, column 1, table VIII) that the distal phenyl ring of the 3-biphenyl group may be further substituted (i.e., with all kind of substituent groups) (cf., the present claims 1 and 26-34); and
 - 5. it is furthermore known from D1 cf., the compounds of D1 wherein D represents a 6-membered aromatic heterocycle comprising at least one nitrogen atom which is substituted with phenyl or an 6-membered unsaturated heterocycle with up to two nitrogen atoms which, in turn, is substituted with C₁₋₆ alkyl which, in turn, is substituted with a group NF²³F²⁴ where R²³ represents a CH₃-SO₂ group), and D3 (cf., the compounds of D3 wherein A is selected from a) wherein Q is selected from

ff) or hh) which groups may be substituted with $-CH_2$ - Π_{ao} wherein Π_{ao} represents - $NH_{ao}H_{ao}$ where Π_{ac} represents a CH_3 - SO_2 -group) that the distal phenyl ring of the 3-(phenylpyridinyl) group (D1) or the 3-biphenyl group (D3) may be substituted with a methylsullonylaminoalkyl group (cf., the present claims 1, 26-28, 30, 32 and 33.]

The skilled person would thus have expected that the compounds of the present claims 1-35 are also useful as antibacterial agents.

Consequently, it is considered that the compounds of the present claims 1-35 do not involve an inventive step as set forth in Article 33(3) PCT.

3. INDUSTRIAL APPLICABILITY (Article 33(4) PCT):

The subject-matter of the present claims 1-36 and 46-48 concerns chemical compounds, pharmaceutical compositions, a chemical process and a medical device and is therefore considered to be industrial applicable in the sense of Article 33(4) PCT.

4. MISCELLANEOUS:

- 4.1. The documents D1 D5 should have been cited (Rule 5.1(a)(ii) PCT).
- 4.2. Claim 35 contains a reference to the description. According to Rule 6.2(a) PCT, claims should not contain such references except where absolutely necessary, which is not the case here.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/US2004/017097

- Process claim 46 is unclear because it does not comprise any process features (Article 6 PCT; clarity)
- 4.4. The passage on page 5, last paragraph page 6, first paragraph referring to N-oxide, N-hydroxy and N-alkoxy derivatives of the present nitrogen containing compounds creates an inconsistency between the claims and the description (the present claims do not comprise any information as regards these N-oxy derivatives). This inconsistency leads to a doubt concerning the extent of protection sought, thus rendering the claims unclear, contrary to Article 6 PCT.
- 4.5. The statements on pages 1 (cf., lines 2-3) and 54 (lines 7-16), concerning

 (i) the incorporation of patent documents and scientific articles and
 - (ii) the scope of the present invention
 - are obviously irrelevant and unnecessary in the sense of Rule 9.1(iv) PCT.